Amendments to the Claims:

This listing of claims will replace all prior version, and listings, of claims in the application:

Listing of Claims:

1. (currently amended) A light system comprising:

a light source that includes at least one white light emitting diode (LED) and multiple color LEDs; and

a spectral feedback control system configured to drive the light source to output white light, to detect the white light that is output from the light source, and to adjust the white light that is output from the light source in response to the light detection.

2. (original) The light system of claim 1 wherein the spectral feedback control system is configured to control the color LEDs on a per-color basis.

3. (original) The light system of claim 2 wherein the at least one white LED includes at least one phosphor-converted white LED and wherein the color LEDs include red, green, and blue LEDs.

4. (currently amended) The light system of claim 2 wherein the spectral feedback control system further includes a color sensor configured to provide color-specific feedback signals for use in controlling the colored LEDs on a per-color basis.

5. (original) The light system of claim 4 wherein the at least one white LED is a phosphor-converted white LED.

6. (currently amended) The light system of claim 1 wherein the spectral feedback control system includes a controller configured to control the colored LEDs on a per-color basis to maintain luminance and chrominance characteristics of the white light that is output from the light source.

7. (original) The light system of claim 1 wherein the spectral feedback control system includes a color sensor configured to provide color-specific feedback signals.

8. (original) The light system of claim 7 wherein the spectral feedback control system includes a controller configured to generate color-specific control signals in response to the color-specific feedback signals.

9. (original) The light system of claim 8 wherein the spectral feedback control system includes a driver configured to generate color-specific drive signals in response to the color-specific control signals.

10. (original) The light system of claim 1 wherein the spectral feedback control system includes:

a color sensor configured to provide color-specific feedback signals;

a controller configured to generate color-specific control signals in response to the color-specific feedback signals; and

a driver configured to generate color-specific drive signals in response to the color-specific control signals.

11. (currently amended) A method for operating a light system comprising:

providing drive signals to a light source that includes at least one phosphor-converted white light emitting diode (LED) and multiple color LEDs to generate white light;

detecting the white light that is generated in response to the drive signals;

generating feedback signals in response to the detected light; and

adjusting the drive signals that are provided to the light source.

12. (currently amended) The method of claim 11 wherein detecting the white light includes generating color-specific feedback signals.

13. (original) The method of claim 12 wherein adjusting the drive signals includes adjusting the drive signals for the color LEDs on a per-color basis in response to the color-specific information.

14. (currently amended) The method of claim 13 wherein the drive signals for the color LEDs are adjusted to maintain luminance and chrominance characteristics of the detected white light.

15. (currently amended) A light system comprising:

an LCD panel;

a light source, in optical communication with the LCD panel, which includes at least one phosphor-converted white light emitting diode (LED) and multiple color LEDs; and

a spectral feedback control system configured to drive the light source to output white light, to detect the white light that is output from the light source, and to adjust the white light that is output from the light source in response to the light detection.

16. (original) The LCD backlight system of claim 15 wherein the spectral feedback control system is configured to control the color LEDs on a per-color basis.

17. (original) The LCD backlight system of claim 16 wherein the color LEDs include red, green, and blue LEDs.

18. (original) The LCD backlight system of claim 16 wherein the spectral feedback control system further includes a color sensor configured to provide color-specific feedback signals for use in controlling the color LEDs on a per-color basis.

19. (currently amended) The LCD backlight system of claim 15 wherein the spectral feedback control system includes a controller configured to control the color LEDs on a per-color basis to maintain luminance and chrominance characteristics of the white light that is output from the light source.

20. (original) The LCD backlight system of claim 15 wherein the spectral feedback control system includes:

a color sensor configured to provide color-specific feedback signals;

a controller configured to generate color-specific control signals in response to the color-specific feedback signals; and

a driver configured to generate color-specific drive signals in response to the color-specific control signals.